

ABSTRACT

An electrostatic spray device and a cartridge for an electrostatic spray device that reduce the occurrence of electrically induced emulsion product separation are disclosed. The device and/or the cartridge may reduce electrically induced emulsion product separation by providing a conductive high voltage shield substantially around the product reservoir. Alternatively, the device and/or the cartridge may prevent the product located at the charging location from being in fluid communication with the product reservoir so that the product that is being charged cannot flow back into the product reservoir. The device and/or cartridge may alternatively reduce electrically induced emulsion product separation by minimizing the volume of product between the charging location and the exit orifice of the nozzle.